



## QUIZZES

### Practice Test-1 (Prokaryotes, Protists and Fungi)



10 Questions



7 min

#### Topics

Bacteria (Size and Shape), Bacterial Cell Structures,  
Nutrition in bacteria

Start Quiz

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06 : 57



1/10



7 min



Hint

Q : It is a cube of eight cocci with three planes of division:



Tetrad



Sarcina



Streptococcus



Staphylococcus

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06 : 56



2/10



7 min



Hint

Q : *Pseudomonas* is a:



Coccus



Bacillus



Vibrio



Spirochete

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06 : 52



2/10



7 min



Hint

Q : *Pseudomonas* is a:



Coccus



Bacillus



Vibrio



Spirochete

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06 : 51



3/10



7 min



Hint

Q : Which of the following statement is correct about bacteria?



All bacteria are parasite



All bacteria are microscopic



All bacteria are anaerobes



All bacteria are pathogen

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06 : 49



4/10



7 min



Hint

Q : One, which is not present in bacterial cells?



Microtubules



Nucleoid



Cytosol



Glycogen

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06 : 48



5/10



7 min



Hint

Q : All of the following bacteria can show chemotaxis except:



Atrichous



Lophotrichous



Monotrichous



Peritrichous

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06 : 46



6/10



7 min



Hint

Q : Pili are primarily involved in a mating process between cells called:



Replication



Conjugation



Transduction



Transformation

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06 : 44



7/10



7 min



Hint

Q : The smallest known bacterium is without:



Cell wall



Cytoplasmic matrix



DNA



Ribosomes

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06 : 42



8/10



7 min



Hint

Q : All of the following are similarities of DNA in plasmid and nucleoid except:



Both are circular



Both are double stranded



Both contain genes



Both are involved in growth

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06 : 41



9/10



7 min



Hint

Q : Energy required for synthetic reactions of chemosynthetic bacteria comes from:



Solar energy



Chemical energy



Oxidation of organic substances



Oxidation of inorganic substances

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06 : 38



10/10



7 min



Hint

Q : *Mycobacterium tuberculosis* is an example of:



Saprotrophic bacterium



Parasitic bacterium



Photosynthetic bacterium



Chemosynthetic bacterium

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## QUIZ RESULT

Practice Test-1 (Prokaryotes, Protists and Fungi)



10



7 min



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Result Detail

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Correct

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Incorrect

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Unattempted

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Biology

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← Practice Test-1 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



1/10

Q : It is a cube of eight cocci with three planes of division:



Tetrad



Sarcina

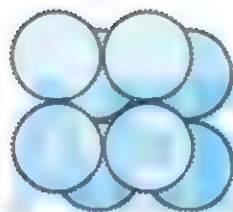


Streptococcus



Staphylococcus

Explanation



sarcina

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← Practice Test-1 (Prokaryotes, Protists and Fungi)



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2/10

Q : *Pseudomonas* is a:



Coccus



Bacillus

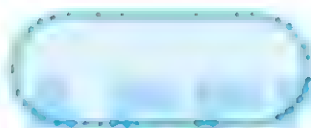


Vibrio



Spirochete

Explanation



bacilli

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3/10

Q : Which of the following statement is correct about bacteria?



All bacteria are parasite



All bacteria are microscopic



All bacteria are anaerobes



All bacteria are pathogen

### Explanation

- Bacteria can be parasite, saprotroph and autotroph.
- Bacteria can be aerobic or anaerobic.
- Bacteria can be pathogenic and non-pathogenic.

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← Practice Test-1 (Prokaryotes, Protists and Fungi)



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4/10

Q : One, which is not present in bacterial cells?



Microtubules



Nucleoid



Cytosol



Glycogen

Explanation

As there is no need of support of organelle in cytoplasm of bacteria so microtubules are not present in bacterial cells.

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5/10

Q : All of the following bacteria can show chemotaxis except:



Atrichous



Lophotrichous



Monotrichous



Peritrichous

### Explanation

Chemotaxis requires flagella for motility. Atrichous bacteria do not have flagella so are immotile.

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← Practice Test-1 (Prokaryotes, Protists and Fungi)



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6/10

Q : Pili are primarily involved in a mating process between cells called:



Replication



Conjugation



Transduction



Transformation

Explanation

During conjugation, pili are involved in attachment and form hollow tube for transfer of genetic material

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← Practice Test-1 (Prokaryotes, Protists and Fungi)



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7/10

Q : The smallest known bacterium is without:



Cell wall



Cytoplasmic matrix



DNA



Ribosomes

Explanation

Mycoplasma are smallest known bacteria and are without cell wall.

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← Practice Test-1 (Prokaryotes, Protists, and Fungi)



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Unattempted



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8/10

Q : All of the following are similarities of DNA in plasmid and nucleoid except:



Both are circular



Both are double stranded



Both contain genes



Both are involved in growth

Explanation

- Nucleoid has role in growth and metabolism.
- Plasmid usually develops resistance in bacteria.

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← Practice Test-1 (Prokaryotes, Protists, and Fungi)



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Q : Energy required for synthetic reactions of chemosynthetic bacteria comes from:



Solar energy



Chemical energy



Oxidation of organic substances



Oxidation of inorganic substances

Explanation

Chemosynthetic bacteria oxidize inorganic compounds like ammonia, nitrates, nitrites, sulphur or ferrous ions and trap the energy for their synthetic reactions.

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10/10

Q : *Mycobacterium tuberculosis* is an example of:



Saprotrophic bacterium



Parasitic bacterium



Photosynthetic bacterium



Chemosynthetic bacterium

### Explanation

Parasitic bacteria depend upon host for nutrition and cause diseases. *Mycobacterium tuberculosis* causes TB.

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## QUIZZES

Practice Test-2 (Prokaryotes, Protists and Fungi)



10 Questions



7 min

Topics

Start Quiz

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06 : 58



1/10



7 min



Hint

Q : Bacteria which can grow either in presence or absence of oxygen are called:



Aerobic bacteria



Anaerobic bacteria



Facultative bacteria



Microaerophilic bacteria

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06 : 57



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7 min



Hint

Q : Even a small amount of oxygen is toxic for:



*Pseudomonas*



Spirochete



*Campylobacter*



*E. coli*

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06 : 55



3/10



7 min



Hint

Q : Which of the following is correct sequence of events of binary fission in bacteria?



Cell enlargement > Chromosome duplication > Plasma membrane invagination



Chromosome duplication > Cell enlargement > Plasma membrane invagination



Plasma membrane invagination > Cell enlargement > Chromosome duplication



Chromosome duplication > Plasma membrane invagination > Cell enlargement

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06 : 54



4/10



7 min



Hint

Q : Maximum growth rate in bacteria can be seen at:



Lag phase



Log phase



Stationary phase



Decline phase

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06 : 52



5/10



7 min



Hint

Q : It causes destruction of all life forms:



Sterilization



Disinfection



Antisepsis



Immunization

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06 : 50



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7 min



Hint

Q : Antibiotic that inhibits the reproductive capacities of the microbes is called:



Broad spectrum



Microbistatic



Microbicidal



Microbiological

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06 : 48



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7 min



Hint

Q : First antibiotic was obtained from:



Bacteria



Actinomycete



Fungi



Algae

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06 : 47



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7 min



Hint

Q : Moist heat is effective in controlling microbes because it causes:



Oxidation of DNA



Liquidation of DNA



Coagulation of proteins



Liquidation of proteins

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06 : 45



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7 min



Hint

Q : Generally electromagnetic radiations below \_\_\_\_\_ wavelength are used for sterilization:



100 nm



300 nm



400 nm



500 nm

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06 : 42



10/10



7 min



Hint

Q : These are chemotherapeutic agents that work with our defense system against microbes:



Disinfectants



Vaccines



Preservatives



Antibiotics

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## QUIZ RESULT

Practice Test-2 (Prokaryotes, Protists and Fungi)



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7 min



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Result Detail

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Biology

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← Practice Test-2 (Prokaryotes, Protists and Fungi)



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1/10

Q : Bacteria which can grow either in presence or absence of oxygen are called:



Aerobic bacteria



Anaerobic bacteria



Facultative bacteria



Microaerophilic bacteria

Explanation

- Obligate bacteria can survive in single specific condition.
- Facultative bacteria can survive in different conditions.

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← Practice Test-2 (Prokaryotes, Protists and Fungi)



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2/10

Q : Even a small amount of oxygen is toxic for:



*Pseudomonas*



Spirochete



*Campylobacter*



*E. coli*

Explanation

Spirochete are anaerobic bacteria and oxygen is lethal for such bacteria.

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← Practice Test-2 (Prokaryotes, Protists and Fungi)



Correct



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3/10

Q : Which of the following is correct sequence of events of binary fission in bacteria?



Cell enlargement > Chromosome duplication > Plasma membrane invagination



Chromosome duplication > Cell enlargement > Plasma membrane invagination



Plasma membrane invagination > Cell enlargement > Chromosome duplication



Chromosome duplication > Plasma membrane invagination > Cell enlargement

Explanation

Complete sequence is as under:

Parent Cell Enlargement → Chromosome Duplication/  
DNA Replication & Distribution → Cell Membrane  
Invagination → Inward Growth of Cell Wall → Division of  
Cell into Two Daughter Cells



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← Practice Test-2 (Prokaryotes, Protists and Fungi)



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Q : Maximum growth rate in bacteria can be seen at:



Lag phase



Log phase

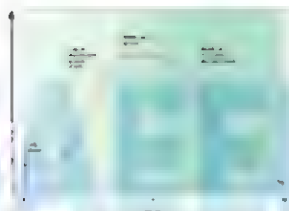


Stationary phase



Decline phase

Explanation



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← Practice Test-2 (Prokaryotes, Protists and Fungi)



Correct



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5/10

Q : It causes destruction of all life forms:



Sterilization



Disinfection



Antisepsis



Immunization

Explanation

Sterilization involves use of physical agents.

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← Practice Test-2 (Prokaryotes, Protists and Fungi)



Correct



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6/10

Q : Antibiotic that inhibits the reproductive capacities of the microbes is called:



Broad spectrum



Microbistatic



Microbicidal



Microbiological

Explanation

- Microbicidal cause killing of microbes.
- Microbistatic inhibit growing capacity.
- Broad spectrum has wide use on different types of bacteria.

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← Practice Test-2 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



7/10

Q : First antibiotic was obtained from:



Bacteria



Actinomycete



Fungi



Algae

Explanation

First antibiotic was penicillin that was obtained by Alexander Fleming from *Penicillium*.

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← Practice Test-2 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



8/10

Q : Moist heat is effective in controlling microbes because it causes:



Oxidation of DNA



Liquidation of DNA



Coagulation of proteins



Liquidation of proteins

Explanation

Moist heat has more penetration power as compared to dry heat.

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← Practice Test-2 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



9/10

Q : Generally electromagnetic radiations below \_\_\_\_\_ wavelength are used for sterilization:



100 nm



300 nm



400 nm



500 nm

Explanation

Gamma rays are commonly used for this purpose.

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← Practice Test-2 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



10/10

Q : These are chemotherapeutic agents that work with our defense system against microbes:



Disinfectants



Vaccines



Preservatives



Antibiotics

Explanation

Antibiotics are chemotherapeutic agents used to treat infectious diseases. These work with our immune system.

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## QUIZZES

Practice Test-3 (Prokaryotes, Protists and Fungi)



10 Questions



7 min

Topics

Start Quiz

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06 : 59



1/10



7 min



Hint

Q :

*Entamoebae* is a:



Photosynthetic amoeba



Multicellular organism



Move with the help of flagella



Parasitic amoeba

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06 : 57



2/10



7 min



Hint

Q :

Presence of which traits differ ciliates from other Protozoans?



Two types of nuclei



Contractile vacuole



Process of conjugation



Pellicle

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06 : 56



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7 min



Hint

Q : Shells of radiolarians give glassy appearance because of deposition of:



Calcium



$\text{CaCO}_3$



Silica



Cellulose

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06 : 54



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7 min



Hint

Q : Fusion of egg and sperm of plasmodium during its life cycle occurs in:



Gut of mosquito



RBC s of human



Salivary glands of mosquito



Liver of human

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06 : 52



5/10



7 min



Hint

Q : Intermediate host for *Plasmodium* is:



Human



Female anopheles



Male anopheles



Snail

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06 : 50



6/10



7 min



Hint

Q : Specific locomotory structures are not present in:



Ciliates



Zooflagellates



Foraminiferans



Apicomplexans

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06 : 48



7/10



7 min



Hint

Q : All of following statements are true about algae except:



Some algae forms coenocytic filaments



Some algae are sessile throughout their life



Some algae became heterotrophs during dark



Some algae have microphylls for photosynthesis

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06 : 46



8/10



7 min



Hint

Q : Causal agent of late blight of potatoes is:



*Phytophthora infestans*



*Physarum polycephalum*



*Polysiphonia*



*Pyrrophyta*

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06 : 44



9/10



7 min



Hint

Q :

All of following structures formed in life cycle of slime molds are haploid except:



Plasmodium



Spores



Swarm cells



Biflagellated cells

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06 : 42



10/10



7 min



Hint

Q : Centrioles are absent in:



Pink molds



Slime molds



Water molds



*Entamoeba*

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## QUIZ RESULT

Practice Test-3 (Prokaryotes, Protists and Fungi)



10



7 min



11-Apr-2021



0 sec



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Result Detail

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Correct

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Incorrect

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Unattempted

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Biology

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← Practice Test-3 (Prokaryotes, Protists, and Fungi)



Correct



Unattempted



Incorrect



1/10

Q :

*Entamoebae* is a:



Photosynthetic amoeba



Multicellular organism



Move with the help of flagella



Parasitic amoeba

Explanation

*Entamoeba histolytica* is a parasitic amoeba that causes amoebic dysentery (intestinal dysentery) in humans.

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← Practice Test-3 (Prokaryotes, Protists and Fungi)



Correct



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2/10

Q :

Presence of which traits differ ciliates from other Protozoans?



Two types of nuclei



Contractile vacuole



Process of conjugation



Pellicle

Explanation



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← Practice Test-3 (Prokaryotes, Protists, and Fungi)



Correct



Unattempted



Incorrect



3/10

Q : Shells of radiolarians give glassy appearance because of deposition of:



Calcium



CaCO<sub>3</sub>



Silica



Cellulose

Explanation

Radiolarians are actinopods with glassy shells made of silica.

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← Practice Test-3 (Prokaryotes, Protists, and Fungi)



Correct



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4/10

Q : Fusion of egg and sperm of plasmodium during its life cycle occurs in:



Gut of mosquito



RBC s of human

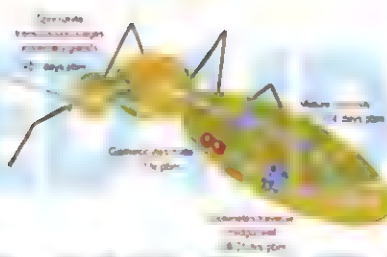


Salivary glands of mosquito



Liver of human

Explanation



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← Practice Test-3 (Prokaryotes, Protists, and Fungi)



Correct



Unattempted



Incorrect



5/10

Q : Intermediate host for *Plasmodium* is:



Human



Female anopheles



Male anopheles



Snail

Explanation



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← Practice Test-3 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



6/10

Q : Specific locomotory structures are not present in:



Ciliates



Zooflagellates



Foraminiferans



Apicomplexans

Explanation

Apicomplexans are parasitic group of organisms having no locomotory structures. They move by flexing.

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7/10

Q : All of following statements are true about algae except:



Some algae forms coenocytic filaments



Some algae are sessile throughout their life



Some algae became heterotrophs during dark



Some algae have microphylls for photosynthesis

### Explanation

Microphylls are smaller leaves that are present in early plants like lycopods.

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← Practice Test-3 (Prokaryotes, Protists and Fungi)



Correct



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Incorrect



8/10

Q : Causal agent of late blight of potatoes is:



*Phytophthora infestans*



*Physarum polycephalum*



*Polysiphonia*



*Pyrrophyta*

Explanation



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← Practice Test-3 (Prokaryotes, Protists, and Fungi)



Correct



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Incorrect



9/10

Q :

All of following structures formed in life cycle of slime molds are haploid except:



Plasmodium



Spores



Swarm cells



Biflagellated cells

Explanation



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Correct



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Incorrect



10/10

Q : Centrioles are absent in:



Pink molds



Slime molds



Water molds



*Entamoeba*

### Explanation

Pink mold is a fungus. Fungi don't have centrioles in their cells. Water mold and slime mold are fungal like protists with centrioles.

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## QUIZZES

Practice Test-4 (Prokaryotes, Protists and Fungi)



10 Questions



7 min

Topics

Start Quiz

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06 : 58



1/10



7 min



Hint

Q : A character that is found only in fungi is:



Chitin in cell wall



Absorptive heterotroph



Nuclear mitosis



Sporangia

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06 : 56



2/10



7 min



Hint

Q : One which is more resistant to decay as compared to others



Cellulose



Glycogen



Lignin



Chitin

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06 : 55



3/10



7 min



Hint

Q : Mycelium is not found in:



Mushroom



Rust



Yeast



Penicillium

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06 : 53



4/10



7 min



Hint

Q : Which of the following statement about Lichens is not true?



A They are considered as pioneers in succession



B Visible part of lichen is fungus



C Most lichens belongs to basidiomycetes



D Fungi protects algae from desiccation

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06 : 51



5/10



7 min



Hint

Q : These can be produced both sexually and asexually:



Spores



Conidia



Gametangia



Zygote

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06 : 50



6/10



7 min



Hint

Q : Which of following is correct sequence of event in life cycle of rhizopus?



Plasmogamy → karyogamy → meiosis



Plasmogamy → karyogamy → haploid spore formation



Plasmogamy → long dikaryotic → karyogamy



Karyogamy → plasmogamy → meiosis

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06 : 48



7/10



7 min



Hint

Q : Special kind of genetic recombination called parasexuality is actually exchange of genetic material between:



Two nuclei of different hyphae



Two nuclei of same hyphae



Two hyphae of different organisms



Two nuclei of different species

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06 : 46



8/10



7 min



Hint

Q : Which of the following is immunosuppressant drug?



Griseofulvin



Lovastatin



Cyclosporine



Ergotine

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06 : 43



9/10



7 min



Hint

Q : The most commonly studied yeast is:



*Physarrum polycephalum*



*Saccharomyces cerevisiae*



*Phytophthora infestan*



*Rhodotorula*

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06 : 40



10/10



7 min



Hint

Q :

It is an example of edible mushroom:



*Morcella esculenta*



*Agaricus*



*Tuber Species*



*Neurospora*

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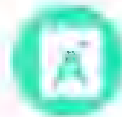
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## QUIZ RESULT

Practice Test-4 (Prokaryotes, Protists and Fungi)



10



7 min



11-Apr-2021



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Result Detail

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Correct

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Incorrect

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Biology

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Correct



Unattempted



Incorrect



1/10

Q : A character that is found only in fungi is:



Chitin in cell wall



Absorptive heterotroph



Nuclear mitosis



Sporangia

### Explanation

Fungi has nuclear mitosis only, in which nuclear envelope does not break during cell division.

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← Practice Test-4 (Prokaryotes, Prokaryotes) (10/24)



Correct



Unattempted



Incorrect



2/10

Q : One which is more resistant to decay as compared to others



Cellulose



Glycogen



Lignin



Chitin

Explanation

Fungal cell wall is made of chitin which is more resistant than cellulose and lignin.

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← Practice Test-4 (Prokaryotes, Protists, Fungi, and Plants)



Correct



Unattempted



Incorrect



3/10

Q : Mycelium is not found in:



Mushroom



Rust



Yeast



*Penicillium*

Explanation

Yeast is a unicellular fungus. It does not have hyphae and mycelium.

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Incorrect



4/10

Q : Which of the following statement about Lichens is not true?



They are considered as pioneers in succession



Visible part of lichen is fungus



Most lichens belongs to basidiomycetes



Fungi protects algae from desiccation

### Explanation

Ascomycetes and imperfect fungi and a few basidiomycetes (only 20 out of 15000 species) associate with fungi to make lichens. Sometime algae and cyanobacteria also make lichen with fungi.

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← Practice Test-4 (Prokaryotes, Protists, Fungi, and Plants)



Correct



Unattempted



Incorrect



5/10

Q : These can be produced both sexually and asexually:



Spores



Conidia



Gametangia



Zygote

Explanation

Asexual spores are formed by mitosis in sporangia (zygomycota) and ascus (ascomycota). Sexual spore is formed in zygomycota (zygospore).

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← Practice Test-4 (Prokaryotes, Protists & Fungi)



Correct



Unattempted



Incorrect



6/10

Q : Which of following is correct sequence of event in life cycle of rhizopus?



Plasmogamy → karyogamy → meiosis



Plasmogamy → karyogamy → haploid spore formation



Plasmogamy → long dikaryotic → karyogamy



Karyogamy → plasmogamy → meiosis

Explanation



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Correct



Unattempted



Incorrect



7/10

Q : Special kind of genetic recombination called parasexuality is actually exchange of genetic material between:



Two nuclei of different hyphae



Two nuclei of same hyphae



Two hyphae of different organisms



Two nuclei of different species

### Explanation

Imperfect Fungi show special kind of genetic recombination, called parasexuality, in which portions of chromosomes of two nuclei lying in the same hyphae are exchanged.

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## Practice Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



8/10

Q : Which of the following is immunosuppressant drug?

A

Griseofulvin

B

Lovastatin

C

Cyclosporine

D

Ergotine

Explanation

Cyclosporine is obtained from soil fungus which is used in organ transplantation.

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## Practice Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



9/10

Q : The most commonly studied yeast is:

A

*Physarrum polycephalum*

B

*Saccharomyces cerevisiae*

C

*Phytophthora infestan*

D

*Rhodotorula*

### Explanation

*Saccharomyces cerevisiae* is used in molecular biological research. It is also first organism which is used in genetic engineering. In 1983, a functional artificial chromosome was made in it.

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## Practice Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



10/10

Q :

It is an example of edible mushroom:

A

*Morcella esculenta*

B

*Agaricus*

C

*Tuber Species*

D

*Neurospora*

Explanation

*Morcella esculenta* is a morel. *Tuber species* is under ground fruiting bodies.. *Agaricus* is a edible mushrrom.

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## QUIZZES

### Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



30 Questions



25 min

#### Topics

Bacteria (Size and Shape), Bacterial Cell Structures, Nutrition in bacteria, Respiration in bacteria, Reproduction in bacteria, Importance and control of bacteria, Protozoa, Algae, Nutrition and Reproduction in Fungi, Classification of Fungi, Importance of Fungi

Start Quiz

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